

City of Nashua Wastewater Fund Rate/Revenue Requirement Analysis March 2011

- Analysis of the Wastewater Fund for FY10 and projections through FY19
- Current issues impacting the Wastewater Fund include:
 - EPA Consent Order \$73M Capital Projects
 - Aging Infrastructure sewer system & treatment plant
 - Decreased Volume
 - State Aid Grant Funding Revenue Reduction of \$20M over 9 years

Assumptions

- User Fees calculated using a Volumetric Rate + Demand Rate
- Current Average Quarterly User Bill:
 - Residential \$59.75 @ 2,500 Cubic Feet (cf)

Background

- Last rate analysis completed February 2009 resulted in 15% user fee rate/revenue increase effective July 1st of FY10.
 - FY10 Rate Increase:
 - 15% Increase User Fee Rate/Revenue Approved
 - 15% Revenue Increase = 27% Increase Volumetric Rate + 0% Increase Demand Rate.
- History of Rate Adjustments:
 - FY04 Volumetric Rate Reduced from \$1.67 to \$1.22 per 100 cf
 - FY10 Volumetric Rate Increased from \$1.22 to \$1.55 per 100 cf

Recommendations

- Approval of a 15% increase in the wastewater user fee rates effective July 1, 2011:
 - FY12 Volumetric Rate Increase from \$1.55 to \$1.78 per 100 cf;
 - FY12 Average Quarterly Residential Demand Charge Increase from \$21.00 to \$24.15;
- Approval of capital project debt financing in the amount of \$15,492,453.

Revenue Analysis

- The wastewater user fee rates are comprised of two components – volumetric and demand. It is recommended that the rate increase be applied to both components.
- Increasing both rate components spreads the rate increase more evenly among all customers and provides the City with a more consistent source of revenue.
- The demand charge is more constant and would allow for improved forecasting. The volumetric component is more volatile and has resulted in revenues lower than originally forecast.
- In order to achieve the necessary revenue requirements by applying rate increases to the volumetric component only, the percentage increase in the volumetric rate would be 26%.

Volumetric & Demand Rates Recommended FY12

Rate	Average Quarterly
Increase	Billing Increase
15%	\$8.96

Volumetric Rate Only FY12

Rate	Average Quarterly
Increase	Billing Increase
26%	\$10.08

Community Comparison

Below is a comparison of current user fees for Nashua residents to similar communities in New Hampshire:

	Nashua	Derry	Manchester	Concord	Keene
Volumetric Rate/100 cf	\$1.55	\$2.98	\$3.24	\$3.95	\$5.52
Fixed Charge – Avg. Quarterly	\$21.00	\$35.66	\$19.00	\$35.86	\$22.18
Avg. Quarterly Residential Bill	\$59.75	\$106.43	\$100.95	\$131.34	\$160.18

State Aid Grant (SAG) Program – Funding Deferral

- The Wastewater Fund receives most of its revenue from user fees. The Fund also received funding through the State Aid Grant Program towards the cost of wastewater projects.
- □ The SAG Program was deferred in FY09 and as a result the City has not received any SAG funds on new completed projects since the deferral.
- □ The State continues to defer funding of State Aid Grants for new projects.
- □ The deferment reduced the City's anticipated grant funds for wastewater related projects by approximately \$20 million over the next nine years.
- To be responsible the current Wastewater Fund Rate/Revenue Requirement Analysis does not include any future SAG revenue at this time.

- The table below shows the comparison that the 2011 Rate/Revenue Analysis projected rate increase is consistent with the projections of the 2009 Analysis.
- The deferral of the State Aid Grant Program will have a direct impact on future projected rate increases.
- With several major projects completed, underway, or in the pipeline, the deferment of the SAG program puts and additional strain on the fund and the need for additional user fees.
- Any reinstatement by the State of the SAG program would be welcomed and would help to mitigate necessary rate increases in future fiscal years.

2009 Rate/Revenue Analysis With SAG Funding

Projected Rate Increases	FY10	FY11	FY12
	15%	0%	15%

2011 Rate/Revenue Analysis Without SAG Funding

Projected Rate Increases	FY10	FY11	FY12
	15%	0%	15%

Cost Analysis

- Capital Equipment Replacement
 - The Analysis includes the cost of operations, several capital projects, as well as an updated capital equipment replacement schedule.
 - Capital equipment replacement costs for the next three fiscal years are projected as follows:
 - □ FY12 \$3,452,000
 - FY13 \$1,173,000
 - FY14 \$1,028,000

Capital Project Financing

- It is recommended the City approve capital project debt financing in the amount \$15,492,453 as detailed below.
- The City currently has given authority to debt finance the Screening & Disinfection Facility
- The debt financing would be through the State Revolving Loan Fund (SRF) at a rate of 2.864%. Specific debt schedules are included in the Analysis Schedule E.

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Screening & Disinfection Facility

* Approved R-09-176

Storage Tank (Consent Decree Project)

Aeration Blower Upgrade

Dewatering Equipment Replacement Project

** Town of Hudson Contribution (12.58%) $1,223,718

$22,639,197

$5,764,964

$4,160,973

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Total

$15,492,453
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Summary

- Moving forward with the recommended revenue increases and debt financing should allow the City to:
 - Fund normal operating costs;
 - Meet the EPA Consent Decree deadlines;
 - Adequately fund reserves for future equipment needs;
 - Fund improvements to infrastructure sewer system & treatment plant
 - Pay for debt incurred to fund large capital projects not paid for with reserves or unrestricted net assets.